## INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2005/008458

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER B01J37/03 B01D53/94 B01J23/	10 B01J23/63						
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 B01J B01D								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)								
EPO-In	ternal, PAJ, WPI Data							
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the rel	Relevant to claim No.						
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) -& JP 2004 074138 A (TOYOTA MOTOF 11 March 2004 (2004-03-11) paragraphs '0018!, '0022!; figur	6-11						
P,X	EP 1 415 956 A (TOYOTA MOTOR CO L 6 May 2004 (2004-05-06) claims 1,12; examples 	TD 'JP!)	1-11					
Further documents are listed in the continuation of box C.								
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filling date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filling date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family  Date of mailing of the international search report						
Date of the actual completion of the international search  12 August 2005		19/08/2005						
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV RIJswljk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,		Authorized officer Schoofs, B						

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Intermedial Application No
PCT/JP2005/008458

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2004074138	Α	11-03-2004	NONE	
EP 1415956	Α	06-05-2004	JP 2004141833 A EP 1415956 A2 US 2004087440 A1	20-05-2004 06-05-2004 06-05-2004